Yuxi(Lucy) Lu Curriculum vitae

EDUCATION

- Doctor of Philosophy, Columbia University, New York, NY. **Aug 2019 - Aug 2023**
- Master of Philosophy, New York, NY. **2019 - 2022**
- Master of Arts, Columbia University, New York, NY. **2019 - 2021**
- Bachelor of Science, Honors Degree. University of Maryland, College Park, MD. **2014 - 2018**
- Machine Learning course by Stanford University, passed with 95.7%. Online. **Jan 2019**

FELLOWSHIPS

- 2024 - present Buckeye Prize Fellow and Ohio State President's Postdoctoral Scholar
- 2021 - 2023 RGGS Graduate Student Fellowship
- 2022 Kade Fellowship
- 2019 - 2021 Columbia University Graduate Fellowship

TRAVEL GRANTS

- 2023 White Dwarf Research Corporation conference fund
- 2019 Raynor L. Duncombe Student Research Prize

PHD THESIS INFORMATION

PhD candidate, Advisor: Ruth Angus & Melissa Ness, Department of Astronomy, Columbia University, Manhattan, New York & Department of Astronomy, American Museum of Natural History, Central Park West, Manhattan, New York, **Sep. 2021 - Aug. 2023**

- Dissertation Title: Rewinding the Milky Way in Time

PUBLICATIONS: H-INDEX:14 (ALL), 9 (FIRST AUTHOR)

Total citations: 539 (as of June 25, 2025)

google scholar page: https://scholar.google.com/citations?user=-360Ga8AAAAJ&hl=en&oi=ao

ADS page: https://ui.adsabs.harvard.edu/search/p_=0&q=orcid%3A0000-0003-4769-3273&sort=citation_count%20desc%2C%20bibcode%20desc

TEACHING EXPERIENCE

SRMP Research mentor, American Museum of natural history, New York, New York, **Sep. 2023 - June 2024**.

Head Teaching Assistant, Department of Astronomy, Columbia University in the City of New York, New York, New York, **Aug. 2021 - June 2022**

STUDENT ADVISED

Mohammad Alvi Refat, Master student, City University of New York, **Aug. 2024 - present.**

Yashpranav (Pranav) Sairam, Undergraduate student, University of Waterloo, **Aug. 2024 - present.**

Lap Nguyen, Undergraduate student, Ohio State University, **Aug. 2025 - present.**

INVITED TALKS

1. *Rewinding the Milky Way in time & Should the Aliens Visit Earth.* Lafayette College. Apr 2025.
2. *Empirical stellar birth radii for the Milky Way and beyond*. Lund University Galaxy Group Seminar. Dec 2023.
3. *Rewinding the Milky Way in time*. Exoplanets & Stars Seminar. Yale University. Nov 2023.
4. *Rewinding the Milky Way in time*. CCAPP seminar. The Ohio State University. Sep 2023.
5. *Rewinding the Milky Way in time*. University of Florida. Sep 2023.
6. *Rewinding the Milky Way in time*. University of Hawaii Institute for Astronomy (IfA). July 2023.
7. *An Abrupt change in the stellar spin-down law at the fully convective boundary*. Columbia University. May 2023.
8. *Galactic Archaeology in the Solar Neighborhood with Gyrochronology*. Center for Astrophysics Harvard & Smithsonian (CfA). March 2023.
9. *There is No Place Like Home — Finding Birth Radii of Stars in the Milky Way*. Group Meeting of Kate Daniel. CCA. December 2022.
10. *Ages for old low-mass K/M dwarfs with gyrochronology and spectroscopy*. Seminar at European Space Research and Technology Centre (ESA). Noordwijk, Netherlands. September 2022.
11. *Bridging the gap — uncovering the behavior of the intermediate period gap with ZTF.* Toulouse, France. July 2022.
12. *Properties of the high- and low-alpha disk & the age-metallicity relation in the Galaxy.* Galactic archeology group meeting at MPIA. Online. April 2022.
13. *Properties of the high- and low-alpha disk & the age-metallicity relation in the Galaxy.* GASP group meeting at ANU. Online. March 2022.
14. *Gyro-kinematic ages for around 30,000 Kepler stars.* FIFTY YEARS OF THE SKUMANICH RELATIONS. Boulder, Colorado. March 2022.
15. *Astraea: A Random Forest Algorithm to Predict Long Rotation Periods of TESS Stars with 27-Day Light Curves*. TESS science collaboration meeting. Online. 2020.

OUTREACH TALKS:

1. **Yuxi Lu**, et al. *Do robots dream of light curves? Using machine learning to measure rotation periods of stars*. Columbia Astronomy outreach. NYC. March, 2020.
2. **Yuxi Lu**, et al. *Do robots dream of light curves? Using machine learning to measure rotation periods of stars*. AMNH high school class. NYC. March, 2020.

COMMUNITY SERVICE

Committee for Sexual-Orientation & Gender Minorities in Astronomy (SGMA) committee member, American Astronomical Society, **Aug 2021 - present**

Seminar committee member, Department of Astronomy, American Museum of Natural History, Central Park West, Manhattan, New York, **Sep. 2022 - Aug. 2024**

Graduate student representative for faculty search, Astronomy department, Columbia University in the City of New York, New York, New York. **2022**